



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Fly assigned heading for radar vectors to intercept MSP R-281 and DWN R-095 to DWN VORTAC. Turbojet aircraft maintain 7000 or lower assigned altitude, all other aircraft maintain 5000 or lower assigned altitude.

DME EQUIPPED AIRCRAFT RWY 12L/R DEPARTURES: For assigned headings from 060° clockwise to 100°, cross MSP 7 DME at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure. Thence . . . .

NON DME EQUIPPED AIRCRAFT RWY 12L/R DEPARTURES: For assigned headings from 060° clockwise to 100°, cross FGT R-010 at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure. Thence . . . .

TAKE-OFF RUNWAY 17: For assigned headings from 230° clockwise to 285° cross MSP 7 DME at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure. Thence . . . .

TAKE-OFF RUNWAY 30L/R: For assigned headings from 220° clockwise to 360° cross MSP 7 DME at or above 3500, maintain assigned altitude. If unable to comply, advise ATC as soon as possible prior to departure. Thence . . . .

TAKE-OFF RUNWAY 4, 22, 35: Initially assigned heading, thence....

. . . . via transition or assigned route. Expect clearance to filed altitude/flight level 10 (ten) minutes after departure.

ABERDEEN TRANSITION (DWN4.ABR): From over DWN VORTAC via DWN R-271 and ABR R-088 to ABR VOR/DME.

TAKE-OFF OBSTACLE NOTES:

- RWY 4: Multiple trees beginning 800' from DER, 264' left of centerline, up to 75' AGL/921' MSL.  
Rod on building 2528' from DER, 1175' left of centerline, 78' AGL/922' MSL.  
Fence 803' from DER, 585' left of centerline, 15' AGL/860' MSL.  
Antenna on OL building 456' from DER, 319' left of centerline, 13' AGL/850' MSL.  
Light poles 1932' from DER, 718' left of centerline, 45' AGL/885' MSL.  
Stack 4535' from DER, 481' left of centerline, 139' AGL/949' MSL.
- RWY 22: Tree 2906' from DER, 833' right of centerline, 94' AGL/934' MSL. Hopper 1717' from DER, 456' left of centerline, 48' AGL/888' MSL.
- RWY 30L: Multiple trees beginning 1113' from DER, 701' left of centerline , up to 80' AGL/919' MSL.  
Tree 1230' from DER, 633' right of centerline, 30' AGL/877' MSL.  
Ground 28' from DER, 490' right of centerline, 844' MSL.
- RWY 17: Antenna 1272' from DER, 562' right of centerline, 57' AGL/891' MSL.  
Pole 409' from DER, 530' right of centerline, 29' AGL/866' MSL.  
Wind direction indicator on building 2619' from DER, 881' left of centerline, 97' AGL/918' MSL.  
Building 2619' from DER, 859' left of centerline, 84' AGL/905' MSL.  
Light 1176' from DER, 291' right of centerline, 11' AGL/875' MSL.  
Tree 2619' from DER, on centerline, 79' AGL/900' MSL.
- RWY 30R: Building 1056' from DER, 198' left of centerline, 13' AGL/853' MSL.  
Multiple trees beginning 3010' from DER, 334' left of centerline, up to 94' AGL/940' MSL.  
Light pole 1849' from DER, 698' right of centerline, 17' AGL/871' MSL.  
Fence 1327' from DER, 667' right of centerline, 8' AGL/857' MSL.  
Tree 3703' from DER, 350' right of centerline, 67' AGL/914' MSL.  
Rod on pole 3143' from DER, 47' right of centerline, 38' AGL/898' MSL.
- RWY 35: Tree 175' from DER, 398' right of centerline, 73' AGL/883' MSL.  
Multiple trees beginning 1989' from DER, 351' left of centerline, up to 65' AGL/902' MSL.  
Multiple buildings beginning 5.5 NM from DER, 1787' left of centerline, up to 811' AGL/1743' MSL.
- RWY 12R: Multiple trees beginning 1477' from DER, 407' left of centerline, up to 86' AGL/851' MSL.  
Multiple trees beginning 1426' from DER, 124' right of centerline, up to 111' AGL/847' MSL.  
Light pole 1408' from DER, 746' right of centerline, 85' AGL/843' MSL.  
Radar reflector 983' from DER, 32' left of centerline, 15' AGL/829' MSL.  
Pipe on building, 826' from DER, 576' left of centerline, 10' AGL/825' MSL.  
OL on LOC 766' from DER, on centerline, 7' AGL/821' MSL.